Hyper Vision
DVR-800 & 1600

8 & 16 Channels DVR

Card Kit Installation Guide

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1. DVR-800 & 1600 DVR System Requirement

Hyper Vision 8CH & 16CH DVR card kit needs to specify the combination of “motherboard chipset ”, “VGA chip”, and “network interface chip”.

Hyper Vision DVR card kit specifies:

Motherboard Chipset	Intel 845E, SiS645DX, SiS648, Intel 845PE
VGA Chip	nVIDIA TNT2, GeForce2, GeForce4
Network Interface Chip	Realtek 8139C

Remark: DVR-800 & 1600 also supports VGA card with TV-out function. If you would like to install the VGA card with TV-out function, you could use the VGA card with nVidia GeForce4 MX440 chip (eg. MSI MX440-T8X).

This document takes GigaByte GA-8IEX motherboard (Intel 845E chipset) as an example, which has the following peripheral controllers:

GA-8IEX

Motherboard Chipset	Intel 845E
VGA Chip	nVIDIA TNT2
Network Interface Chip	Realtek 8139C

If you could not find GigaByte GA-8IEX motherboard, you could try the other motherboards such as Gigabyte GA-8SG667, GA-8PE667 Pro, ASUS P4S533-E, ASUS P4PE, or motherboards with Intel 845E/ Intel 845PE/ SiS645DX/ SiS648 chipset.

2. DVR-800 & 1600 Card Kit Package Contents

DVR-800 & 1600 card kit includes,

1. Four capture cards (Fig.2-1).
2. One system module and one power cable for this module (Fig2-2)
3. One special cable for connecting the system module and internal CD/RW. If you use the external CD/RW (USB interface), you won't need this cable (Fig2-3).

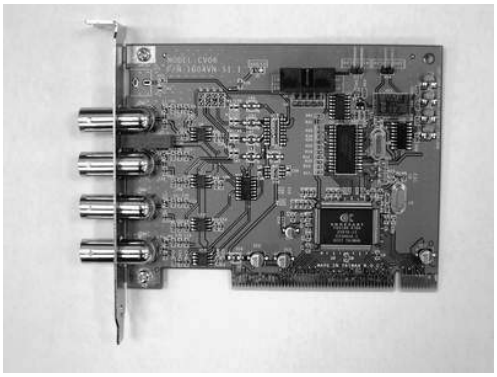


Fig.2-1 Capture Card

Fig.2-2 System Module

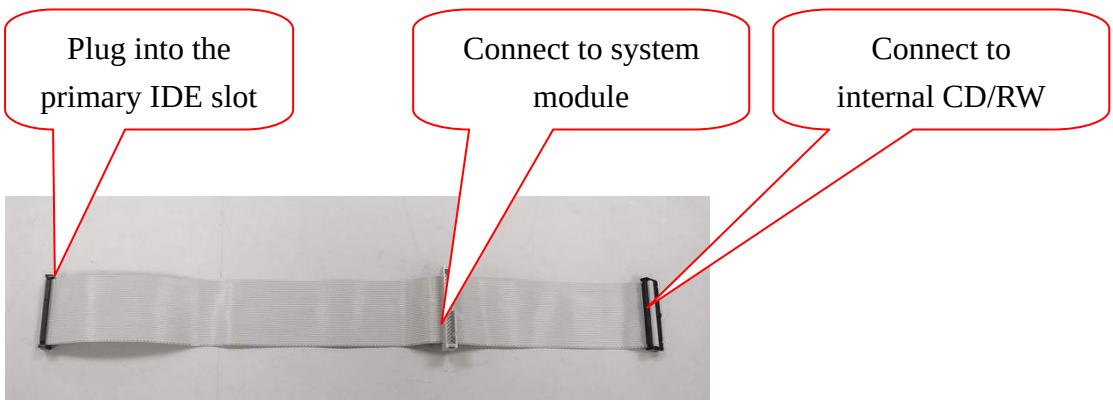


Fig.2-3 Special Cable

Install the Capture Cards

This section describes the installation procedures on GigaByte GA-8IEX motherboard (w/ Intel 845E chipset) as an example.

Please install all interface cards as the photo (Fig 3-1) below:

1. Insert the display card into the AGP slot.
2. Insert 4 capture cards into 1st, 2nd, 3rd, 4th PCI slots.
3. Insert the network interface card into the last PCI slot.

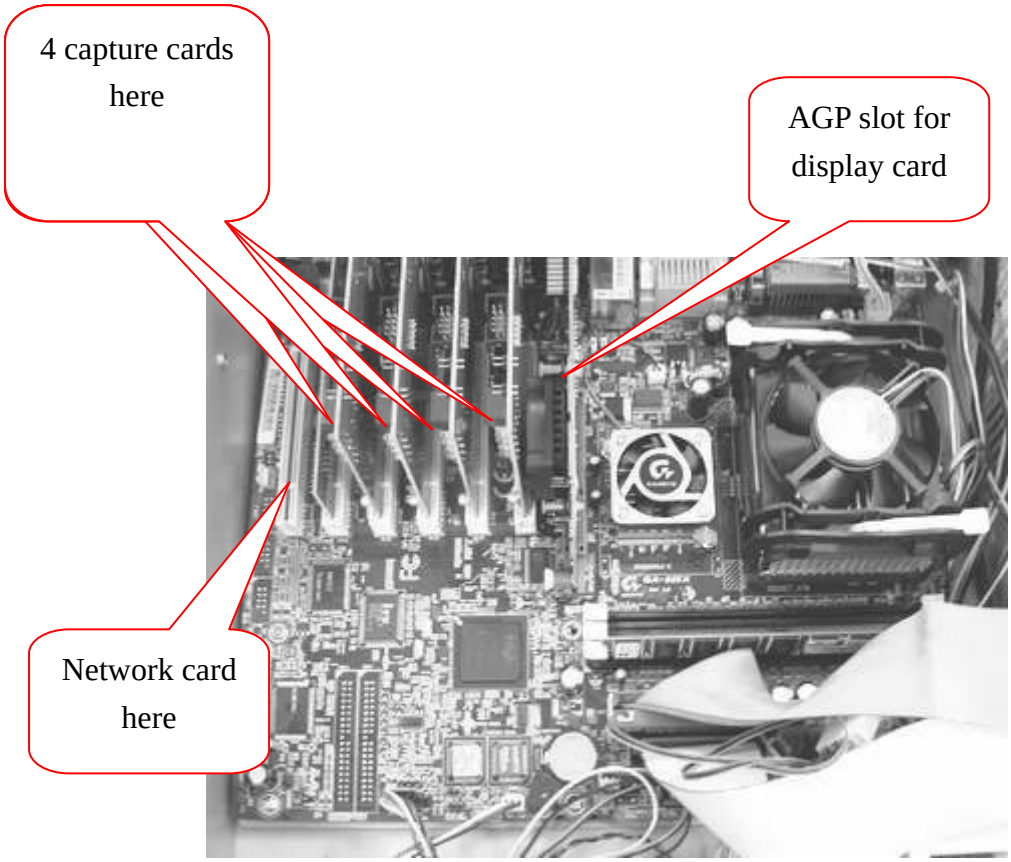


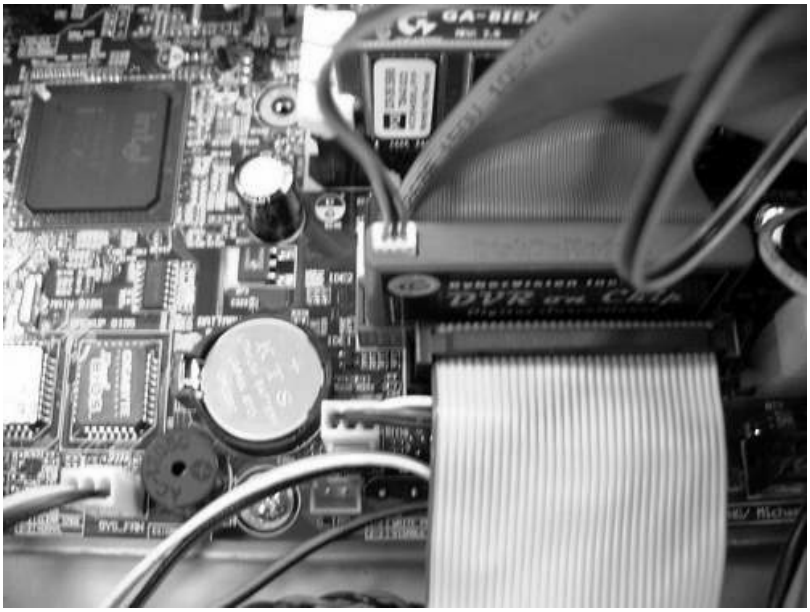
Fig 3-1 DVR-800 & 1600 capture cards installed on GA-8IEX

Remark:
The example above is the installation procedure on GA-8IEX motherboard. For the other motherboard with Intel 845E/SiS 645DX/SiS648 chipset, the installation procedure is similar to the above procedures.

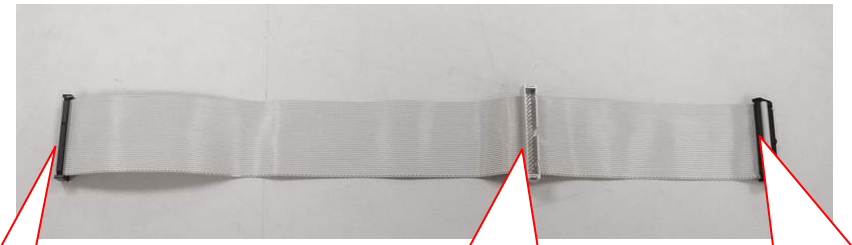
3. Install the Flash Module & Hard Disk

4-1 Install the Flash Module

In general, there are two IDE slots, one is Primary (the red one on GA-8IEX), and the other is Secondary. Please plug the System Module into Primary IDE slot and set it as “Master”, then connect the D-type power line to power supply as the figure below.



If you would like to install the internal CD/RW burner also (DVR-800 & 1600 supports the internal CD/RW and USB external CD/RW both), please use the special cable as the figure below which is included in the shipping box to connect the system module (set as Primary IDE Master) and the internal CD/RW (set as Primary IDE Slave).



Plug into the primary IDE slot

Connect to system module (Set as Primary IDE “Master”)

Connect to internal CD/RW burner (Set as Primary IDE “Slave”)

4-2 Install Hard disk

DVR-800 & 1600 could support 2 Hard Disks. If you install one hard disk only, please set it as Secondary IDE “Master”. If you install the 2nd hard disk, please set it as Secondary IDE “Slave”.

First, configure the jumper of hard disk as **Master** (refer to manual of hard disk), then link hard disk with 40-pins parallel cable to the Secondary IDE slot (the white one on the GA-8IEX).

Please pay attention to the direction of the 40-pins parallel cable. Some cheap cable without “foolproof” may cause mistake. Normally, there is a red line marked on the 1st pin of the cable, which should be connected to 1st pin of hard disk and IDE slot.

5. Install Other Parts

5-1 CPU

GA-8IEX has a Socket 478 for CPU. For Hyper Vision, the system recording frame rate is depended on the CPU that system uses. If it uses the Intel P4-2.4G, the system recording frame rate is around 100fps(Frame per Second).

5-2 DRAM

System's minimum requirement is 256MB(DDR for GA-8IEX).

5-3 Floppy

Hyper Vision supports "Save-to-Floppy" function for single picture, so you can connect a 3.5" 1.44MB floppy to FDD slot on motherboard for this feature.

5-4 Reset Button on Case

Please **DO NOT** attach the Reset Button to the reset pin of motherboard, which means, please do not enable reset function.

If users make the mistake to trigger the reset button, it will immediately shutdown the whole machine abnormally and loose some records. However, if user push the "Power Button", the system could close all the opened files, and keep the integrity of records.

6. Configure BIOS Parameters

Due to heavy traffic between IO devices and motherboard, the optimum BIOS configuration is necessary for Digital Video Recorder system to have stable operation.

When you finish assembling Capture Cards, Flash Module, and Hard Disk, please connect the keyboard and mouse before turning on power for setting BIOS.

After power on, you will see a flash screen of display logo followed by a POST (power on self-test) screen with sentence “Hit **DEL** if you want to run SETUP”. Press **DEL** to enter BIOS setup menu.

There are only few keys used in this setting: Direction keys are used to select entities of functions. [Page Up], [Page Down], and [Tab] are used to switch options of function.

You can **select [Load Optimize Default]** in the main menu to load optimum setting, then please refer to the setting listed in the next section.

6-1. for Gigabyte GA-8IEX

Please select [Load Optimize Defaults] in the main menu to load optimum setting, then please refer to the setting listed in the next.

[Standard CMOS features]

IDE Primary Master	[PQI IDE Secured Disk]
IDE Primary Slave	[None]
IDE Secondary Master	[*your hard disk*]
IDE Secondary Slave	[None]
Drive A	[1.44M, 3.5“]
Drive B	[None]
Floppy 3 Mode Support	[Disabled]
Halt on	[All, But Keyboard]

[Advanced BIOS Features]

First Boot Device	[HDD-0]
Second Boot Device	[Disabled]
Third Boot Device	[Disabled]
Boot Up Floppy Seek	[Disabled]
Init Display First	[AGP]

[Integrated Peripherals]

On Chip Primary Master PCI IDE	[Enabled]
On Chip Secondary Slave PCI IDE	[Enabled]
IDE1 Conductor Cable	[Auto]
IDE2 Conductor Cable	[Auto]
USB Controller	[Enabled]
USB Keyboard Support	[Disabled]
USB Mouse Support	[Disabled]
AC97 Audio	[Disabled]
Onboard Lan Controller	[Disabled]
Onboard Lan Boot Rom	[Disabled]
Onboard Serial Port 1	[3F8/IRQ4](Enable for Modem)
Onboard Serial Port 2	[Disabled] (Enable for PTZ)

Onboard Parallel Port	[Disabled]
Game Port Address	[Disabled]
Midi Port Address	[Disabled]
CIR Port Address	[Disabled]

[Power Management Setup]

ACPI Suspend Type	[S1(POS)]
Soft-off by PWR-BTTN	[Instant-Off]
PME Event Wake Up	[Enabled]
ModemRingOn/WakeOnLan	[Disabled]
Resume by Alarm	[Disabled]
Power On By Mouse	[Disabled]
Power On By Keyboard	[Disabled]
AC BACK Function	[Memory]

[PnP/PCI Configurations]

PCI1/PCI5 IRQ Assignment	[Auto]
PCI2/PCI6 IRQ Assignment	[Auto]
PCI3 IRQ Assignment	[Auto]
PCI4 IRQ Assignment	[Auto]

[PC Health Status]

Reset Case Open Status	[Disabled]
CPU Warning Temperature	[Disabled]
CPU FAN Fail Warning	[Disabled]
Power FAN Fail Warning	[Disabled]
System FAN Fail Warning	[Disabled]

[Frequency/Voltage Control]

CPU Host Clock Control	[Disabled]
Host/DRAM Clock Ratio	[Auto]
DIMM OverVoltage Control	[Normal]
AGP OverVoltage Control	[Normal]
CPU Voltage Control	[Normal]

6-2.for Gigabyte GA-8SG667

Please select [Load Optimize Defaults] in the main menu to load optimum setting, then please refer to the setting listed in the next.

[Standard CMOS features]

IDE Primary Master	[PQI IDE Secured Disk]
IDE Primary Slave	[None]
IDE Secondary Master	[*your hard disk*]
IDE Secondary Slave	[None]
Drive A	[1.44M, 3.5“]
Drive B	[None]
Floppy 3 Mode Support	[Disabled]
Halt on	[All, But Keyboard]

[Advanced BIOS Features]

First Boot Device	[HDD-0]
Second Boot Device	[Disabled]
Third Boot Device	[Disabled]
Boot Up Floppy Seek	[Disabled]
Password Check	[Setup]
Init Display First	[AGP]

[Integrated Peripherals]

IDE1 Conductor Cable	[Auto]
IDE2 Conductor Cable	[Auto]
On Chip Primary PCI IDE	[Enabled]
On Chip Secondary PCI IDE	[Enabled]
AC97 Audio	[Disabled]
USB Controller	[Enabled]
USB Legacy Support	[Disabled]
Onboard Serial Port 1	[3F8/IRQ4](Enable for modem)
Onboard Serial Port 2	[2F8/IRQ3](Enable for PTZ)
Onboard Parallel Port	[Disabled]
Game Port Address	[Disabled]

Midi Port Address	[Disabled]

[Power Management Setup]

ACPI Suspend Type	[S1(POS)]
Soft-off by PWR-BTTN	[Off]
System After AC Back	[Laststate]
IRQ [3-7,9-15]NMI	[Enabled]
ModemRingOn/WakeOnLan	[Enabled]
PME Event Wake Up	[Enabled]
Power On By Keyboard	[Disabled]
Power On By Mouse	[Disabled]
Resume by Alarm	[Disabled]
Power LED in S1 State	[Blinking]

[PnP/PCI Configurations]

PCI 4 IRQ Assignment	[Auto]
PCI 1 IRQ Assignment	[Auto]
PCI 2 IRQ Assignment	[Auto]
PCI 3 IRQ Assignment	[Auto]

[PC Health Status]

Reset Case Open Status	[Disabled]
CPU FAN Fail Warning	[Disabled]
System FAN Fail Warning	[Disabled]

[Frequency/Voltage Control]

Linear Frequency Control	[Disabled]
AGP/PCI Clock Control	[Auto]

6-3.for ASUS P4S533-E

Please select [Load Optimize Defaults] in the main menu to load optimum setting, then please refer to the setting listed in the next.

[Main]

Legacy Diskette A	[1.44M, 3.5“]
Floppy 3 Mode Support	[Disabled]
Primary Master	[PQI IDE Secured Disk]
Type	[Auto]
Cylinders	[500]
Head	[8]
Sector	[16]
Multi-sector Transfer	[Maximum]
Smart Monitor	[Disabled]
PIO Mode	[2]
ULTRA DMA Mode	[Disabled]
Primary Slave	[Auto]
Boot Up Numlock Status	[On]
Keyboard Auto Repeat Rate	[12 /Sec]
Keyboard Auto Repeat Delay	[1/4 Sec]
Secondary Master	[*your hard disk*]
Secondary Slave	[Auto]
Language	[English(US)]
Supervisor Password	[Disabled]
User Password	[Disabled]
Halt on	[All but Disk/Keyboard]

[Advanced]

CPU Speed	[1700MHz]
CPU Frequency Multiple	[17x]
CPU External Frequency(MHz)	[100/33]
Memory Frequency	[Auto]
CPU Vcore set	[Auto]
CPU Vcore	[1.750B]
CPU Level 2 Cache	[Enabled]

BIOS Update	[Disabled]
PS/2 Mouse function Control	[Enabled]
USB Legacy Support	[Auto]
OS/2 Onboard Memory >64M	[Disabled]
Chip Configuration	
SDRAM Configuration	[By SPD]
SDRAM CAS Latency	[2.5T]
SDRAM RAS to CAS Delay	[3T]
SDRAM RAS Precharge Time	[3T]
SDRAM RAS Active Time	[7T]
SDRAM Commend Lead-off Time	[Auto]
Graphic Aperture Size	[64M]
AGP Capability	[4xMode]
AGP Fast Write Capability	[Enabled]
Video Memory Cached Mode	[UC]
Memory Hole at 15M-16M	[Disabled]
PCI 2.1 Support	[Enabled]
Onboard PCI IDE Enable	[Both]
IDE Bus Mater Support	[Enabled]
I/O Device Configuration	
Floppy Disk Access	[R/W]
Onboard Serial Port 1	[3F8H/IRQ4]
Onboard Serial Port 2	[2F8H/IRQ3]
UART2 Use As	[COM Port]
Onboard Parallel Port	[Disabled]
Speech POST Reporter	[Disabled]
PCI Configuration	
Slot 1/5 IRQ	[Auto]
Slot 2/6 IRQ	[Auto]
Slot 3 IRQ	[Auto]
Slot 4 IRQ	[Auto]
PCI/VGA Palette Snoop	[Disabled]
PCI Latency Timer	[32]
Primary VGA BIOS	[AGP VGA Card]
USB Function	[Enabled]
USB 2.0 Function	[Enabled]
Onboard PCI Audio Controller	[Disabled]
PCI IRQ Resource Exclusion	

IRQ 3 Reserved	[No/ICU]
IRQ 4 Reserved	[No/ICU]
IRQ 5 Reserved	[No/ICU]
IRQ 7 Reserved	[No/ICU]
IRQ 9 Reserved	[No/ICU]
IRQ 10 Reserved	[No/ICU]
IRQ 11 Reserved	[No/ICU]
IRQ 12 Reserved	[No/ICU]
IRQ 14 Reserved	[No/ICU]
IRQ 15 Reserved	[No/ICU]

[Power]

Power Management	[User Defined]
Video Off Option	[Suspend-> Off]
Video Off Method	[DPMS Off]
HDD Power Down	[Disabled]
ACPI Suspend to RAM	[Disabled]
Suspend Mode	[Disabled]
PWR Button < 4 Secs	[Soft Off]
Power Up Control	
AC Power Loss Restart	[Previous State]
Wake/Power Up On Ext. Mode	[Disabled]
Power Up On PCI Device	[Disabled]
Power Up BY PS/2 Keyboard	[Disabled]
Automatic Power Up	[Disabled]
Hardware Monitor	
Q Fan Function Control	[Disabled]

[Boot]

1. IDE Hard Driver	[PQI IDE Secured Disk]
2. Removable Deice	[Disabled]
3.ATAPI CD-ROM	[Disabled]
4.Other Boot Device	[Disabled]
Plug & Play O/S	[No]
Boot Virus Detection	[Disabled]
Quick Power on Self Test	[Enabled]

Boot Up Floppy Seek	[Disabled]
Full Screen Logo	[Disabled]
Interrupt Mode	[APIC]

6-4.for ASUS P4PE

Please select [Load Optimize Defaults] in the main menu to load optimum setting, then please refer to the setting listed in the next.

[Main]

Legacy Diskette A	[1.44M, 3.5“]
Floppy 3 Mode Support	[Disabled]
Primary Master	[PQI IDE Secured Disk]
Type	[Auto]
Cylinders	[500]
Head	[8]
Sector	[16]
Multi-sector Transfer	[Maximum]
Smart Monitor	[Disabled]
PIO Mode	[2]
ULTRA DMA Mode	[Disabled]
Primary Slave	[Auto]
Boot Up Numlock Status	[On]
Keyboard Auto Repeat Rate	[12 /Sec]
Keyboard Auto Repeat Delay	[1/4 Sec]
Secondary Master	[*your hard disk*]
Type	[Auto]
Cylinders	[1024]
Head	[16]
Sector	[63]
Multi-sector Transfer	[Maximum]
Smart Monitor	[Disabled]
PIO Mode	[4]
ULTRA DMA Mode	[5]
Secondary Slave	[Auto]
Keyboard Features	
Boot Up Numlock Status	[Off]

Keyboard Auto-Repeat Rate	[12/Sec]
Keyboard Auto-Repeat Delay	[1/4 Sec]
Language	[English(US)]
Supervisor Password	[Disabled]
User Password	[Disabled]
Halt on	[All but Disk/Keyboard]

[Advanced]

CPU Speed	[2400MHz]
CPU Frequency Multiple	[18x]
CPU External Frequency(MHz)	[133]
Memory Frequency	[Auto]
AGP/PCI Frequency Setting	[Auto]
CPU Vcore Setting	[Auto]
CPU Vcore	[1.500V]
DDR Reference Voltage	[Auto]
AGP VDDQ Voltage	[Auto]
CPU Level 1 Cache	[Enabled]
CPU Level 2 Cache	[Enabled]
BIOS Update	[Enabled]
PS/2 Mouse function Control	[Auto]
USB Legacy Support	[Auto]
OS/2 Onboard Memory >64M	[Disabled]
Chip Configuration	
SDRAM Configuration	[By SPD]
SDRAM CAS Latency	[2.5T]
SDRAM RAS to CAS Delay	[3T]
SDRAM RAS Precharge Time	[3T]
SDRAM Active Precharge Delay	[7T]
System Performance Mode	[Auto]
SDRAM Idle Timer	[Auto]
SDRAM Burst Length	[Auto]
Memory Turbo Mode	[Disabled]
DRAM Refresh Rate	[By SPD]
Graphic Aperture Size	[64MB]
AGP Capability	[4x Mode]
Video Memory Cache Mode	[UC]

Memory Hole At 15M-16M [Disabled]
Delay Transaction [Enabled]
Onboard PCI IDE Enable [Both]
USB 2.0 HS Reference Voltage [Medium]

I/O Device Configuration

Floppy Disk Access Control [R/W]
Onboard Serial Port 1 [3F8H/IRQ4]
Onboard Serial Port 2 [2F8H/IRQ3]
UART2 Use As [COM Port]
Onboard Parallel Port [Disabled]
Onboard AC97 Audio Controller [Disabled]
Onboard Game Port [Disabled]
Onboard MI/DI IO [Disabled]
Speech POST Reporter [Enabled]

PCI Configuration

Slot 1/5 IRQ [Auto]
Slot 2 IRQ [Auto]
Slot 3 IRQ [Auto]
Slot 4 IRQ [Auto]
Slot 6IRQ [Auto]
PCI/VGA Palette Snoop [Disabled]
PCI Latency Timer [32]
USB 1.1 Controller [3 Controller]
USB 2.0 Controller [Enabled]
Primary VGA BIOS [AGP VGA Card]
Onboard LAN Controller **[Disabled] =>As our systems don't support BroadCom net chip, please insert extra Realtek8139 Lan Card**
Onboard LAN Boot ROM [Disabled]
PCI IRQ Resource Exclusion

IRQ 3 Reserved [No/ICU]
IRQ 4 Reserved [No/ICU]
IRQ 5 Reserved [No/ICU]
IRQ 7 Reserved [No/ICU]
IRQ 9 Reserved [No/ICU]
IRQ 10 Reserved [No/ICU]
IRQ 11 Reserved [No/ICU]
IRQ 12 Reserved [No/ICU]

IRQ 14 Reserved	[No/ICU]
IRQ 15 Reserved	[No/ICU]

[Power]

Power Management	[User Defined]
Video Off Option	[Suspend-> Off]
Video Off Method	[DPMS Off]
HDD Power Down	[Disabled]
ACPI Suspend to RAM	[Disabled]
Suspend Mode	[Disabled]
PWR Button < 4 Secs	[Soft Off]
Power Up Control	
AC Power Loss Restart	[Previous State]
Wake/Power Up On Ext. Mode	[Disabled]
Power Up On PCI Device	[Disabled]
Power Up BY PS/2 Keyboard	[Disabled]
Power Up BY PS/2 Mouse	[Diabled]
Automatic Power Up	[Disabled]
Hardware Monitor	
Q Fan Function Control	[Disabled]

[Boot]

1. Removable Deice	[Disabled]
2. IDE Hard Driver	[PQI IDE Secured Disk]
3.ATAPI CD-ROM	[None]
4.Other Boot Device	[Disabled]
Plug & Play O/S	[No]
Reset Configuration Data	[No]
Boot Virus Detection	[Enabled]
Quick Power on Self Test	[Enabled]
Boot Up Floppy Seek	[Enabled]
Full Screen Logo	[Disabled]
Interrupt Mode	[APIC]

6-5.for Gigabyte GA-8PE667 Pro

Please select [Load Optimize Defaults] in the main menu to load optimum setting, then please refer to the setting listed in the next.

[Standard CMOS features]

IDE Primary Master	[PQI IDE Secured Disk]
IDE Primary Slave	[None]
IDE Secondary Master	[*your hard disk*]
IDE Secondary Slave	[None]
Drive A	[1.44M, 3.5“]
Drive B	[None]
Floppy 3 Mode Support	[Disabled]
Halt on	[All, But Keyboard]

[Advanced BIOS Features]

First Boot Device	[HDD-0]
Second Boot Device	[Disabled]
Third Boot Device	[Disabled]
Boot Up Floppy Seek	[Disabled]
Password Check	[Setup]
Init Display First	[AGP]

[Integrated Peripherals]

On Chip Primary PCI IDE	[Enabled]
On Chip Secondary PCI IDE	[Enabled]
IDE1 Conductor Cable	[Auto]
IDE2 Conductor Cable	[Auto]
USB Controller	[Enabled]
USB Keyboard Support	[Disabled]
USB Mouse Support	[Disabled]
AC97 Audio	[Disabled]
Onboard H/W LAN	[Enabled]
Onboard LAN Boot ROM	[Disabled]
Onboard Serial Port 1	[3F8/IRQ4](Enable for modem)

Onboard Serial Port	2	[2F8/IRQ3](Enable for PTZ)
Onboard Parallel Port		[Disabled]
Game Port Address		[Disabled]
Midi Port Address		[Disabled]
CIR Port Address		[Disabled]

[Power Management Setup]

ACPI Suspend Type	[S1(POS)]
Power LED in S1 State	[Blinking]
Soft-off by PWR-BTTN	[Off]
PME Event Wake Up	[Enabled]
ModemRingOn/WakeOnLan	[Enabled]
Resume by Alarm	[Disabled]
Power On By Mouse	[Disabled]
Power On By Keyboard	[Disabled]
AC Back Function	[Laststate]

[PnP/PCI Configurations]

PCI1/PCI5 IRQ Assignment	[Auto]
PCI2/PCI6 IRQ Assignment	[Auto]
PCI 3 IRQ Assignment	[Auto]
PCI 4 IRQ Assignment	[Auto]

[PC Health Status]

Reset Case Open Status	[Disabled]
CPU Warning Temperature	[Disabled]
CPU FAN Fail Warning	[Disabled]
Power Fan Fair Warning	[Disabled]
System FAN Fail Warning	[Disabled]

[Frequency/Voltage Control]

CPU Host Clock Control	[Disabled]
Host/DRAM Clock Ratio	[Auto]
DIMM OverVoltage Control	[Normal]

AGP OverVoltage Control	[Normal]
CPU Voltage Control	[Normal]

7. Boot and Test

7-1 Connect Cameras

Please put cameras at fix positions, then finish adjusting and calibrating. Connect cameras to Capture Cards with 5C2V coaxial cables. Capture Cards use BNC female connector. If your cameras only have F connector, you need to buy the "BNC to F" adapters.

7-2 Boot and Test

When first booting, system will enter the "Disk Management" option. Please refer to the Section 4 of the Hyper Vision 16 user manual for the related procedures for the hard disk management. After finishing the disk management, the system will reboot and show the main monitoring screen as follows.

After rebooting, if DVR does not appear this GUI (Graphical User Interface), and show out the text: "Hyper Vision Login: ", it means your display card doesn't match, please check the Chapter 1 for the right display card again.

8. Question and Answer

8-1 System requests to format Hard disk again after formatting hard disk.

Ans: Hard disk failure.

Ans: IDE flat cable failure or with wrong connection.

8-2 System reboots continuously.

Ans: There might be the serious bad track on the hard disk. Please change a new one

Ans: There are too many bad bits on the DRAM module. Please change a new one.